

**To: All Distributors
Regional Sales Managers and National Sales Manager**

From: Labrie Technical Development

Model: All

Subject: Hydraulic Pump Replacement

Occasionally, circumstances such as a broken pump drive shaft, leaking/noisy pump or a lack of hydraulic pressure or oil flow may necessitate the replacement of the pump. Before proceeding with the replacement of the pump, determine the type of pump setup that is used on your unit.

There are 3 types of pump setups: front-mounted, PTO-driven (pump connected to PTO via a drive shaft) and direct mount PTO. In essence, each variation calls for the same replacement method but with some differences due to the position of the pump.

To replace a front-mounted hydraulic pump:

1. Disengage the pump and turn OFF the engine.
2. Make sure the parking brake is applied and the vehicle is tagged out for maintenance purposes
3. Close the shut-off valve



4. Loosen the breather cap on the hydraulic tank to depressurize the tank. If tank is of the pressurized type.
5. Remove the pump guard.
6. Disconnect the electric coil on the dump valve.
7. Place a pan under the pump to catch dripping oil and unscrew all hydraulic hoses (4) that are attached to the pump.
8. Remove the dump valve.
9. Disconnect the drive shaft by removing the 4 bolts that secure the shaft to the engine. Some technicians may prefer to disconnect the drive shaft from the pump. The choice is up to the technician and is based on the type of chassis the body is installed on.

10. Attach the pump to a lifting device and remove both 5/8" bolts that hold the pump to the pump support.
11. Remove the pump. If need be, disconnect the drive shaft from the pump and save it for the replacement pump.
12. Install the new pump.

NOTE: Before attempting to install the new pump, it is very important to check the porting configuration of that pump; the ports on the replacement pump must be positioned the same way as on the uninstalled pump. If not, proceed with changing the porting configuration of the new pump. The replacement pump must be oriented in such a way to facilitate easy reconnection to the hydraulic system and attachment to the chassis frame.

Complete instructions on changing the porting configuration of the pump are available in the model specific maintenance manual.

13. Inspect the pump driveshaft u-joints completely prior to re-assembly. Remove and replace as necessary.
14. Reinstall the drive shaft if it has been removed from the engine.



14. Using a lifting device, install the new pump on the pump support.
15. Put both 5/8" bolts back in to secure the pump to the plate.
16. Replace all hydraulic oil and associated filters.
17. Bleed hydraulic system/prime the pump.
18. Tighten the breather cap.
19. Operate all hydraulic functions through complete activation to ensure all components are filled with oil.
20. Check level of hydraulic oil in tank. Add oil if needed.

Contact Your LabriePlus Field Service Representative With Any Questions or for Assistance or you need your Maintenance Manual.